

# **URUN VERTICAL**

Large areas, higher efficiency, less maintenance







**FILTRATION** 



## **URUN**VERTICAL ORV MODEL

The **ORON** filters, thanks to their automatic cleaning equipment with a hydraulic suction nozzle system, do not require the interruption of the filtering phase for cleaning, thus avoiding pressure losses in the system during the washing process

Simpler equipment for greater efficiency, specially designed to meet the most demanding systems' requirements.

#### **DESCRIPTION**

The ORV filtering equipment comes with an automatic cleaning system in which the filtering element or mesh works automatically by means of a hydraulic system with suction nozzles. ORV is specially designed to meet the needs of the most demanding systems.

This equipment is perfect for systems with medium flow rates requiring professional filtration.

The filters can work individually or in a set (in case the flow rates are very high or the water contains a high load of dirt, which makes it necessary to increase the filtering area). The filter is fully equipped. Therefore, only the inlet, outlet and drain connections have to be installed, along other components supplied, which must be assembled according to specifications.









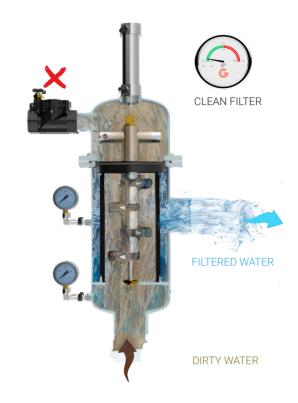
	PARTS AND MATERIALS					
	NAME	MATERIAL				
81	Piston	SST				
2	Valve	Reinforced polyamide				
3	Pressure gauge					
4	O-ring	NBR				
5	Turbine	SST	٦ŧ			
6	Manifold	SST				
7	Nozzles	PE	*Washing unit			
8	Thermowelded mesh	HDPE + SST	*			
9	Body	Thermo-lacquered carbon steel				
10	Solenoid					
11	Timer					

#### **OPERATION**

#### FILTERING PHASE

Dirty water enters through the inlet located in the lower part, flowing through the mesh filter. Dirt larger than the size established by the filtration degree is retained on the inner surface of the mesh. Filtered water exits the filter outlet in optimum conditions for use, avoiding damages to the system.

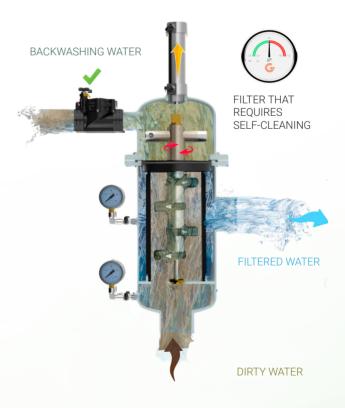
\*Maximum working pressure: 10 bar.



#### AUTOMATIC SIMULTANFOUS CLEANING PHASE

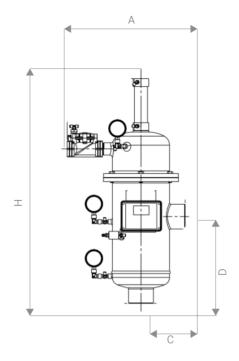
As dirt accumulates on the walls of the mesh, a pressure difference is generated between the clean and dirty water flows. Once the pressure difference established in the timer (recommended difference: 0.5 bar) is reached. the filter cleaning cycle starts automatically. This cycle activates a nozzle set connected to a manifold (washing unit) and they suck the dirt adhered to the mesh surface and release the dirt outside. During the cleaning process, the wash unit moves in a helical motion which is caused by the combination of rotational and translational motions, thus resulting in mesh scanning. Once the cleaning cycle finishes and the pressure difference is compensated, the filter returns to its initial position until another cycle starts.

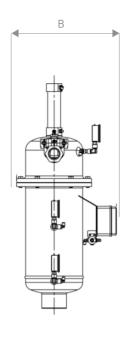
\*Important: minimum cleaning pressure: 2 bar.



### **TECHNICAL DATA**

SIZES			
	3"	4"	
	mm	mm	
Н	870	1.023	
Α	454	500	
В	385	400	
С	170	185	
D	335	425	





	ORV AUTON	MATIC MESH FI	LTERS WITH CA	RBON B	ODY AND	STAINLESS S	TEEL MESH	
MODEL	CONNEC- TION	MAX. WOR- KING PRESSU- RE	MIN. WORKING PRESSURE	MAX. TEMP.	MAX. FLOW	FILTERING AREA	INLET/ OUTLET DIAMETER	CODE
ORV3"	3" ROSCA	10	2	50 °C	35	1.200	85,3	461746
ORV4"	4" BRIDA	10	2	50 °C	70	1.800	100	461747

	CLEANING TIME
SIMPLE CYCLE	NOTE

Washing times may vary depending on the working pressure and regulation of the piston needle valve

CLEANING VALVE			
MODEL	SIZE		
ORV3"	1-1/2" VICTAULIC		
ORV4"	1-1/2 " VICTAULIC		



20 sec.



#### **ORV CONTROL UNITS**

ORV models require a control unit to carry out the cleaning cycle. The control unit consists of a timer and the components required to activate such cycle (solenoids, connection fittings, and wiring).

The ORV models are served equipped with their control unit. They have an output for a general valve, which is activated during the entire cleaning cycle, ideal for controlling shut-off valves, starting for backup pump, stop of subscribers, etc.

CONTROL UNIT					
CODE					
WITH TIMER					
462466					
462468					
462467					
WITHOUT TIMER					
462469					
462471					
462470					

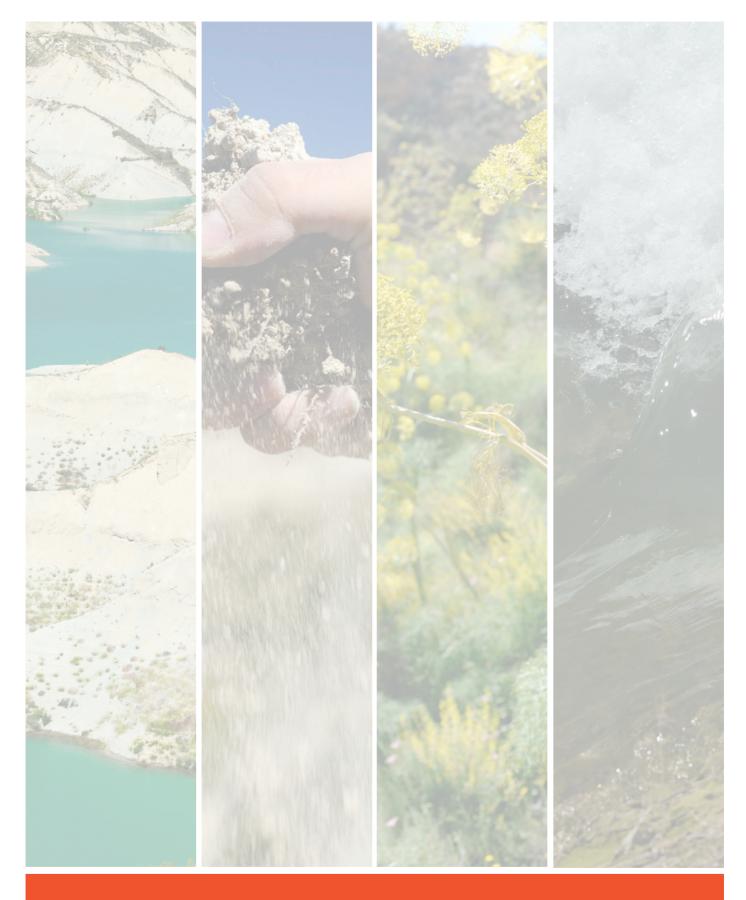












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Creando los caminos del agua





